

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/030,464A
Source: IFW/6
Date Processed by STIC: 9/26/05

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/030,464A

DATE: 09/26/2005

TIME: 09:41:33

Input Set : A:\215110.ST25.txt.txt
 Output Set: N:\CRF4\09262005\J030464A.raw

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3 <110> APPLICANT: Feussner, Ivo
4     Hornung, Ellen
5     Rosahl, Sabine
7 <120> TITLE OF INVENTION: 11-ARACHIDONATE-LIPOXYGENASE MUTANTS
9 <130> FILE REFERENCE: 215110
11 <140> CURRENT APPLICATION NUMBER: US 10/030,464A
12 <141> CURRENT FILING DATE: 2002-05-22
14 <150> PRIOR APPLICATION NUMBER: PCT/EP00/06539
15 <151> PRIOR FILING DATE: 2000-07-10
17 <150> PRIOR APPLICATION NUMBER: DE 199 31 819.0
18 <151> PRIOR FILING DATE: 1999-07-08
20 <160> NUMBER OF SEQ ID NOS: 3
22 <170> SOFTWARE: PatentIn version 3.3
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 61
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Primer
32 <400> SEQUENCE: 1
33 gctgggtgggg ttcttgagag tacattcttt cttcgaaat ttgccatgga aatgtcagct      60
35 g                                         61
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 61
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Primer
46 <400> SEQUENCE: 2
47 cagcgtacat ttccatggca aatttcgaag gaaagaatgt actctcaaga accccaccag      60
49 c                                         61
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 857
54 <212> TYPE: PRT
55 <213> ORGANISM: Solanum tuberosum
57 <400> SEQUENCE: 3
59 Gln Ile Val Gly Gly Leu Ile Gly Gly His His Asp Ser Lys Lys Val
60 1          5          10          15
63 Lys Gly Thr Val Val Met Met Lys Lys Asn Ala Leu Asp Phe Thr Asp
64          20          25          30
67 Leu Ala Gly Ser Leu Thr Asp Lys Ile Phe Glu Ala Leu Gly Gln Lys
68          35          40          45
71 Val Ser Phe Gln Leu Ile Ser Ser Val Gln Ser Asp Pro Ala Asn Gly

```

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72	50	55	60													
75	Leu	Gln	Gly	Lys	His	Ser	Asn	Pro	Ala	Tyr	Leu	Glu	Asn	Phe	Leu	Phe
76	65											70		75		80
79	Thr	Leu	Thr	Pro	Leu	Ala	Ala	Gly	Glu	Thr	Ala	Phe	Gly	Val	Thr	Phe
80												85		90		95
83	Asp	Trp	Asn	Glu	Glu	Phe	Gly	Val	Pro	Gly	Ala	Phe	Ile	Ile	Lys	Asn
84												100		105		110
87	Thr	His	Ile	Asn	Glu	Phe	Phe	Leu	Lys	Ser	Leu	Thr	Leu	Glu	Asp	Val
88												115		120		125
91	Pro	Asn	His	Gly	Lys	Val	His	Phe	Val	Cys	Asn	Ser	Trp	Val	Tyr	Pro
92												130		135		140
95	Ser	Phe	Arg	Tyr	Lys	Ser	Asp	Arg	Ile	Phe	Phe	Ala	Asn	Gln	Pro	Tyr
96	145											150		155		160
99	Leu	Pro	Ser	Glu	Thr	Pro	Glu	Leu	Leu	Arg	Lys	Tyr	Arg	Glu	Asn	Glu
100												165		170		175
103	Leu	Leu	Thr	Leu	Arg	Gly	Asp	Gly	Thr	Gly	Lys	Arg	Glu	Ala	Trp	Asp
104												180		185		190
107	Arg	Ile	Tyr	Asp	Tyr	Asp	Val	Tyr	Asn	Asp	Leu	Gly	Asn	Pro	Asp	Gln
108												195		200		205
111	Gly	Glu	Gln	Asn	Val	Arg	Thr	Thr	Leu	Gly	Gly	Ser	Ala	Asp	Tyr	Pro
112												210		215		220
115	Tyr	Pro	Arg	Arg	Gly	Arg	Thr	Gly	Arg	Pro	Pro	Thr	Arg	Thr	Asp	Pro
116	225											230		235		240
119	Lys	Ser	Glu	Ser	Arg	Ile	Pro	Leu	Ile	Leu	Ser	Leu	Asp	Ile	Tyr	Val
120												245		250		255
123	Pro	Arg	Asp	Glu	Arg	Phe	Gly	His	Leu	Lys	Met	Ser	Asp	Phe	Leu	Thr
124												260		265		270
127	Tyr	Ala	Leu	Lys	Ser	Ile	Val	Gln	Phe	Ile	Leu	Pro	Glu	Leu	His	Ala
128												275		280		285
131	Leu	Phe	Asp	Gly	Thr	Pro	Asn	Glu	Phe	Asp	Ser	Phe	Glu	Asp	Val	Leu
132												290		295		300
135	Arg	Leu	Tyr	Glu	Gly	Gly	Ile	Lys	Leu	Pro	Gln	Gly	Pro	Leu	Phe	Lys
136	305											310		315		320
139	Ala	Leu	Thr	Ala	Ala	Ile	Pro	Leu	Glu	Met	Met	Lys	Glu	Leu	Leu	Arg
140												325		330		335
143	Thr	Asp	Gly	Glu	Gly	Ile	Leu	Arg	Phe	Pro	Thr	Pro	Leu	Val	Ile	Lys
144												340		345		350
147	Asp	Ser	Lys	Thr	Ala	Trp	Arg	Thr	Asp	Glu	Glu	Phe	Ala	Arg	Glu	Met
148												355		360		365
151	Leu	Ala	Gly	Val	Asn	Pro	Ile	Ile	Ile	Ser	Arg	Leu	Gln	Glu	Phe	Pro
152												370		375		380
155	Pro	Lys	Ser	Lys	Leu	Asp	Pro	Glu	Ala	Tyr	Gly	Asn	Gln	Asn	Ser	Thr
156	385											390		395		400
159	Ile	Thr	Ala	Glu	His	Ile	Glu	Asp	Lys	Leu	Asp	Gly	Leu	Thr	Val	Asp
160												405		410		415
163	Glu	Ala	Met	Asn	Asn	Asn	Lys	Leu	Phe	Ile	Leu	Asn	His	His	Asp	Val
164												420		425		430
167	Leu	Ile	Pro	Tyr	Leu	Arg	Arg	Ile	Asn	Thr	Thr	Thr	Thr	Lys	Thr	Tyr
168												435		440		445

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171 Ala Ser Arg Thr Leu Leu Phe Leu Gln Asp Asn Gly Ser Leu Lys Pro
 172 450 455 460
 175 Leu Ala Ile Glu Leu Ser Leu Pro His Pro Asp Gly Asp Gln Phe Gly
 176 465 470 475 480
 179 Val Ile Ser Lys Val Tyr Thr Pro Ser Asp Gln Gly Val Glu Ser Ser
 180 485 490 495
 183 Ile Trp Gln Leu Ala Lys Ala Tyr Val Ala Val Asn Asp Ser Gly Val
 184 500 505 510
 187 His Gln Leu Ile Ser His Trp Leu Asn Thr His Ala Val Ile Glu Pro
 188 515 520 525
 191 Phe Val Ile Ala Thr Asn Arg Gln Leu Ser Val Leu His Pro Ile His
 192 530 535 540
 195 Lys Leu Leu Tyr Pro His Phe Arg Asp Thr Met Asn Ile Asn Ala Met
 196 545 550 555 560
 199 Ala Arg Gln Ile Leu Ile Asn Ala Gly Gly Val Leu Glu Ser Thr Val
 200 565 570 575
 203 Phe Pro Ser Lys Phe Ala Met Glu Met Ser Ala Val Val Tyr Lys Asp
 204 580 585 590
 207 Trp Val Phe Pro Asp Gln Ala Leu Pro Ala Asp Leu Val Lys Arg Gly
 208 595 600 605
 211 Val Ala Val Glu Asp Ser Ser Ser Pro His Gly Val Arg Leu Leu Ile
 212 610 615 620
 215 Glu Asp Tyr Pro Tyr Ala Val Asp Gly Leu Glu Ile Trp Ser Ala Ile
 216 625 630 635 640
 219 Lys Ser Trp Val Thr Asp Tyr Cys Ser Phe Tyr Tyr Gly Ser Asp Glu
 220 645 650 655
 223 Glu Ile Leu Lys Asp Asn Glu Leu Gln Ala Trp Trp Lys Glu Leu Arg
 224 660 665 670
 227 Glu Val Gly His Gly Asp Lys Lys Asn Glu Pro Trp Trp Pro Glu Met
 228 675 680 685
 231 Glu Thr Pro Gln Glu Leu Ile Asp Ser Cys Thr Thr Ile Ile Trp Ile
 232 690 695 700
 235 Ala Ser Ala Leu His Ala Ala Val Asn Phe Gly Gln Tyr Pro Tyr Ala
 236 705 710 715 720
 239 Gly Tyr Leu Pro Asn Arg Pro Thr Val Ser Arg Arg Phe Met Pro Glu
 240 725 730 735
 243 Pro Gly Thr Pro Glu Tyr Glu Glu Leu Lys Lys Asn Pro Asp Lys Ala
 244 740 745 750
 247 Phe Leu Lys Thr Ile Thr Ala Gln Leu Gln Thr Leu Leu Gly Val Ser
 248 755 760 765
 251 Leu Ile Glu Ile Leu Ser Arg His Thr Thr Asp Glu Ile Tyr Leu Gly
 252 770 775 780
 255 Gln Arg Glu Ser Pro Glu Trp Thr Lys Asp Lys Glu Pro Leu Ala Ala
 256 785 790 795 800
 259 Phe Asp Lys Phe Gly Lys Lys Leu Thr Asp Ile Glu Lys Gln Ile Ile
 260 805 810 815
 263 Gln Arg Asn Gly Asp Asn Ile Leu Thr Asn Arg Ser Gly Pro Val Asn
 264 820 825 830
 267 Ala Pro Tyr Thr Leu Leu Phe Pro Thr Ser Glu Gly Leu Thr Gly

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268	835	840	845
271	Lys Gly Ile Pro Asn Ser Val Ser Ile		
272	850	855	

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2

VERIFICATION SUMMARY

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